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The System of Air Representatives in the Ground Forces

by

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The regulatory provisions worked out in the prewar period on the organization and functioning of air representatives in the ground forces were utilized and further developed during the Great Patriotic War. It should be noted that for several reasons our command was not immediately able to implement them in the war's initial period. Specifically, this matter had not been adequately worked on in training exercises and therefore a considerable part of the air forces and ground forces command personnel did not have the appropriate knowledge or practical skills. Moreover, air representatives either were not supplied with their own means of communication or the available means were inadequate.

Frequently in the first month of the war there were no air representatives whatsoever at the tactical level of the ground forces in any front.* The commanders of aviation large units controlled the combat operations of their subordinate units from command posts located in the airfield areas and often without having personal contact or setting up communications with the combinedarms commanders. Therefore, when assigning a combat mission to a subunit (or unit), they themselves did not have detailed knowledge of the actual situation on the front and especially at the line of contact between the troops of the two sides. As a result of poorly organized coordination, aircraft attacked targets at a great distance from the forward edge, out of fear of hitting our own troops. For this reason the defending units and large units could not immediately exploit the results of strikes by bombers and ground-attack aircraft when counterattacking.

| # | | [Central 11, pages | of | the | USSR | Ministry | of | Defense], | folio | 206, | list |
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| aviat comma regul mecha air f the F groun the C Aviat on 23 recei corps dispa post the f combi- | ion operations, anized lar orce state or cedures of forces organization, who is a fer atch an a he would field comined-arms oaching to signal to signal to | ations for the matically be the assignment of the state of front of the state of th | he support and gan to put in nt of represent to improve some up specing represent ssigned duties ration with Gan up by the accordination to the coordination ative to the communications system, informat operations of the communications of the | d cover of the to practice, a ntatives from the organizaticial instructicatives from average from a count force staff at the command perations with the air with the air with the air operations he transmind forces to the corps. | ause of the short ground forces, to ground forces, to so provided for in air divisions to to tons that describe viation large unit te, in the "Instrument Among Branches of the Northwest ier of an air diving a mechanized (or e, was to immediate riving at the corporation, and trans. When aircraft itted to corps her designate their forces. | rifle and ities, the d in detail is to the actions on sof tern Front ision, on rifle) tely as command aff) over ansmit the twere adquarters |
| commair obse visu grou | and posts controller rve the a | to guide fir er (usually f ir situation In certain and bomber | ighters to air from among the n and notify o | targets. At well-trained our fighters o | close to rifle di each of them the fliers). His tan f enemy aircraft ets for the aircra et have their own | re was an sks were to in his ft of |
| * Ib **Th | OU WARA | called by var | rious titles: | observers, latives, etc | Liaison delegates, Author's note. | liaison 50X1 |
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| of visiting the common axes. Each of them (communications along combat mission and the completely, make a mo | ly August 1941, air division commanders began the practice and posts of combined-arms large units on the most important took with him his chief of operations and his chief of with a radio set.* This enabled him to quickly obtain his moroughly clarify it, evaluate the situation more ore rational decision, and issue more specific tasks to a personally supervise their execution. |
| their command posts of extremely good result when air division con (or divisions), assign | air representatives in the ground forces and the visits to of the commanders of air large units immediately yielded ts. For example, in the air forces of the Western Front, manders were present at the command posts of rifle corps and aircraft sometimes delivered a strike against |
| request) from the compossible for ground in | ithin 30 minutes after receiving a combat mission (or mmander of a rifle corps (or division), which made it forces to be more effective in using the results of air stroying the most threatening enemy targets.** |
| request) from the corpossible for ground in descriptions and in description of the institution of the complete equipping of more reliable means to the complete equipping of the first improvement in the complete equipping of the compl | nmander of a rifle corps (or division), which made it forces to be more effective in using the results of air |
| request) from the corpossible for ground in perations and in descriptions are institution of restructured beginning further improvement is complete equipping of more reliable means experience. By order of the leviation departments order to achieve more reliable means of the leviation departments order to achieve more reliable means order to achieve more reliable means order to achieve more reliable means or the leviation departments order to achieve more reliable means or the leviation on the Aviation effect, which descriptions are reliable means or the leviation departments or the leviation of the leviation of the leviation departments or the leviation of the | mmander of a rifle corps (or division), which made it forces to be more effective in using the results of air stroying the most threatening enemy targets.** of air representatives in the ground forces was radically ng in May 1942, simultaneously with the reorganization and in the organizational structure of Red Army air forces, the f their units and large units with radios, the availability |
| request) from the corpossible for ground in perations and in descriptions and in description of the improvement is complete equipping of more reliable means experience. By order of the improvements order to achieve more reliable in the aviation on the Aviation of the improvements order to achieve more into effect, which descriptions in the aviation of the aviatio | mmander of a rifle corps (or division), which made it forces to be more effective in using the results of air stroying the most threatening enemy targets.** of air representatives in the ground forces was radically in may 1942, simultaneously with the reorganization and in the organizational structure of Red Army air forces, the fitheir units and large units with radios, the availability in of target designation, and the accumulation of combat USSR People's Commissariat of Defense, starting in July 1942 were set up in the headquarters of combined-arms armies in a precise coordination with the air forces, and the viation Department of an Army Field Headquarters was put affined it as an operational component of that headquarters |

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| combat operations of communications between the communications between the communications between the communications of the communic | of the aviation department were: drawing up plans for the of aviation assigned to support the army, and organizing ween army headquarters and the aviation units and large units redinated to it and with the air army's headquarters; informing the ground and air situation; organizing the marking of air operations; training their personnel to recognize our to locate and prepare airfields and landing sites; studying combat experience of ground forces against enemy aircraft, and tions for them on rescuing crews that were forced to abandon |
| cooperation between officers were alway study the organization | shown that the creation of aviation departments in the 50X1-mbined-arms armies was a great step forward in improving a aviation and the ground forces. Permanent air force we present in combined-arms armies, which enabled them to tion and tactics of the ground forces in depth, to utilize ctively, and to ensure fuller mutual understanding between aviation commands. |
| representative at a | mander of an air army often served as the aviation the headquarters of the army operating on the main axis in problems of cooperation when an operation was being prepared cooperation in the decisive stage of an operation's conduct.* |
| assigned to rifle directive of the c | 2 air representatives from aviation large units started to be corps and divisions in conformity with the requirements of a commander in chief of the Red Army's air forces for achieving between aviation and ground forces at the tactical level.** |
| representative. Le worked jointly wit aircraft, transmit air cover of groun | eputy commander of an aviation division served as the air ocated at the command post of a combined-arms large unit, he h its staff to prepare the plan for the employment of assigne ted to his own headquarters requests for the air support or d forces and information on the situation in the area of and directed the work of air controllers. |
| compat operations, | |
| · | |
| * RUDENKO, S. I. K | ryl'ya podedy [Wings of Victory], Moscow, Voyenizdat, 1976, |
| * RUDENKO, S. I. K | ryl'ya podedy [Wings of Victory], Moscow, <u>Voyenizdat</u> , 1976, of the <u>Ministry of Defense</u> , folio 131, list 2086, file 37, |

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| air divisions to positive effect of however, that wer Usually air representations. And with shifted to rapid in the established the commanders of command posts. For this purp "auxiliary command" | ground forces large units and formations had an overall on cooperation. Some shortcomings in this area were revealed, be caused principally by the representatives' limited authority. Essentatives performed mainly informational and consultative while this was acceptable on the defense, when our troops and highly mobile offensive operations changes had to be made and system for cooperation. The new conditions urgently required aviation large units (or units) to be located at ground forces cooperations of aviation formations and large units": Dose, starting in the fall of 1942 there were set up so-called and control posts of aviation formations and large units": Dose, starting in the fall of 1942 there were set up so-called and and control posts, and in the set up available of the set up available. |
| an aviation large command and contrares (or tank) as located there were operations group arms army.* He battlefield and subunits, and un | e unit there was a forward command post. An air army autiliary rol post was deployed close to the command post of a combined- rmy at a distance of 8-15 km from the front line. Normally re the commander of the air army or his deputy with an and the officers of the aviation department of the combined- exercised command and control of the aircraft over the directed the targeting, guidance, and retargeting of groups, its. |
| for fighter airc attack aircraft the area of the combined-arms ar | forward command posts of aviation large units were set up only raft, and beginning with the Battle of Kursk for groundas well, and sometimes for bombers also. They were deployed in observation post (sometimes of the command post) of the my on whose behalf the aviation large unit was operating. Orward command post was an operations group headed by a division tly with the ground forces staff, the group worked out the plan |

for cooperation, identification signals, aircraft target designation and

guidance, and it specified the composition of aviation for executing the combat mission. During a battle it called for aircraft, guided aircraft and designated their targets, monitored the operations of aviation units over the battlefield, and notified air defense subunits of the approach of our aircraft to the front line, especially when returning from a combat mission. The creation of air army auxiliary command posts and the forward command posts of aviation large units

* Central Archives of the Ministry of Defense, folio 368, list 21854, file 1,

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pages 29-31; and folio 203, list 51354, file 5, page 4.

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| considerably improve | ed operational coordination between the air and ground |
| and control posts to flight personnel or air controller was forward command pos- unit or large unit, implementing cooper- indicate targets for This enabled ground | ng (or defending) troops, starting in 1943 to their command here were assigned air controllers from among well trained from the officers of divisional and regimental staffs. The part of the operations group of an aviation large unit's t. Located at the observation post of the commander of a he had with him a coded map, a radio signal table for ation and target designation, and he used radio messages to raircraft and warn fliers when enemy aircraft appeared.—attack aircraft and bombers to hit designated targets e to the forward edge, and it precluded hitting our own |
| the system of air r | f the second period of the Great Patriotic War, therefore, epresentatives in the ground forces began to operate more |
| air and combined-ar the end of the war levels there was a made it possible to | ently while ensuring coordination in the combat actions of ms formations and large units during operations. Right to its structure remained virtually unchanged. At all of its constant increase in the quantity of radio equipment, which improve the quality of cooperation and the command and over the battlefield. |
| air and combined-ar the end of the war levels there was a made it possible to control of aviation It should be me between aviation an | ms formations and large units during operations. Right to its structure remained virtually unchanged. At all of its constant increase in the quantity of radio equipment, which improve the quality of cooperation and the command and |
| air and combined-ar the end of the war levels there was a made it possible to control of aviation It should be me between aviation an in the armed forces In the postwar the system of air r the armies of the i the influence of the | its structure remained virtually unchanged. At all of its constant increase in the quantity of radio equipment, which improve the quality of cooperation and the command and over the battlefield. Intioned that some similar measures to improve cooperation and the ground forces were also carried out during World War I of other countries. In period the experience of the organization and functioning of representatives in the ground forces was widely utilized by imperialist powers in the local wars they unleashed. Under the development of combat weapons, and systems for the command ops and weapons, and of the specific conditions for conduction new elements and features have appeared in the system's |
| air and combined-ar the end of the war levels there was a made it possible to control of aviation. It should be me between aviation an in the armed forces. In the postwar the system of air rethe armies of the influence of the and control of troccombat operations, structure and functions. | its structure remained virtually unchanged. At all of its constant increase in the quantity of radio equipment, which improve the quality of cooperation and the command and over the battlefield. Intioned that some similar measures to improve cooperation and the ground forces were also carried out during World War I of other countries. In period the experience of the organization and functioning of representatives in the ground forces was widely utilized by imperialist powers in the local wars they unleashed. Under the development of combat weapons, and systems for the command ops and weapons, and of the specific conditions for conduction new elements and features have appeared in the system's |

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| these formations. operations command tactical air contro in the zones of inf Tactical air co headquarters of arm effected coordinati tactical command an about the ground an and, when necessary situation to higher from various headqu pointed out to them | Air Force and the 8th Army to ensure cooperation between The Air Force was represented in it by an air combat and control group. In the zones of every 8th Army corps, centers were deployed, and corresponding posts were set up antry and armored divisions and separate units. Introl centers were normally located in the area of the y corps and maintained direct communications with them. They con between groups of aircraft and ground forces at the discontrol level, informed the crews operating in their zones diair situation, provided them with navigational assistance, retargeted aircraft in flight, reported data on the authority, and transmitted to it requests for air support arters. The control posts guided aircraft to ground targets, the lines for safe bombing, informed the headquarters of |
| large units and sep | arate units of planned aircraft sorties, and relayed requests the tactical air control center. |
| of air controllers aircraft, from which | s compared to World War II was the placement by the Americans not only in troop battle formations but also aboard special they monitored the situation on the ground and guided the most profitable targets.* |
| • | l changes in the system of air representatives occurred in |

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contacts between the representatives of the air and ground forces right in the zone of fire distribution. In contrast to the Korean War, in Vietnam the air controllers in battalions were the lowest level coordinating tactical aircraft with the troops being supported. Their functions were the same as those of air

* Styuart, Dzh. Vozdushnaya moshch' -- reshayushchaya sila v Korei [J. STEWART. Airpower -- the Decisive Force in Korea], Moscow, <u>Inostrannaya literatura</u>,

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1959, p. 124.

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| controllers assigned at that period to infantry units and large units. | controllers assigned | at that period | to infantry ur | nite and large : | |
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| During the airmobile operations conducted by the Americans in Indochina there were a number of special aspects in the functioning of the institution of | Lhama mama a mimbam | of special aspec | ts in the fund | ctioning of the | institution of |

During the airmobile operations conducted by the Americans in Indochina there were a number of special aspects in the functioning of the institution of air representatives, including the creation of command and control centers for helicopter combat operations and airborne command posts in helicopters.* The command and control center worked out problems of cooperation, and organized and supported communications between supporting aviation and ground forces. Located in an airborne command post, along with the commander of the airmobile group, were the commander of the helicopter battalion with a representative from his staff, and also officers to coordinate fire support and communications with aviation.

This made it possible to coordinate in a short time strikes by artillery, helicopters, and tactical aviation to destroy important targets along the flight route and in the assault landing zones. Furthermore, the availability of special equipment in an airborne command post made it possible to guide fixedwing aircraft and helicopters to ground targets.**

During air support in the India-Pakistan conflict (1971) there was organized a direct line for communications and delivering requests: "forward air controller -- airfield of ground-attack aircraft." Furthermore, in order to inform flight personnel of their combat missions in greater depth, there was a ground forces representative at the airfield, who received the requests and briefed the aircrews prior to a sortie.

During the local wars and armed conflicts in the Near East (1973 and 1982) with the appearance of air-to-surface guided weapons the role of the forward air controllers increased substantially. They had available improved means of guidance and target designation, which enabled them to effectively guide fixed-wing aircraft and helicopters operating at very low altitudes to ground targets.***

| * | Aeromobil'nyye | | | | Operations | of the | US Army], |
|-----|-----------------|-----------------------|--------------------|---------|------------|--------|-----------|
| | Moscow, Voyeniz | <u>dat</u> , 1977, pp | . 75 and 76 | • | | | |
| | Ibid. | | _ | | _ | | _ |
| **1 | Voyenno-istoric | heskiy zhurna | <u>l</u> [Military | History | Journal], | No. 12 | 2, 1983, |
| | pp. 39 and 40. | | | | | | |
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| in local wars is aircraft comman. According to in along two lines their cooperations support, and gu | nce of organizing cooperation between aviation and ground forces being widely utilized by the Americans to improve the tactical and control system of the US Air Force in the European zone. Formation in the foreign press, this work is now being conducted ensuring the command and control of US tactical aircraft and on with V Corps and VII Corps when providing them with close air iding American fighters to air targets to assist in air defense. |
| of the control of the controllers are receive and ana missions (or ta aviation and th aircraft to gro OV-10 Bronco sp | control Wing. To perform the first mission there have been set opport squadrons and tactical air control squadrons, based on deployed corresponding air support operational centers and ft control teams at the combat operations command and control army corps and divisions to which they belong, while forward air assigned to brigades and battalions. These air control elements lyze requests for close air support, assign flight resources by regets), organize and implement cooperation between tactical a ground forces units and large units being supported, and guide and targets. The command and control subunits are equipped with ecial guidance and target-designation aircraft, CH-43 dar, armored personnel carriers, and facilities for |
| Thus, the e presence of air for achieving c joint missions. aircraft reactitheir strikes c conformity with and to retarget | data processing and imaging. Plans call for the use of OV-10 from flight duty to act as forward air controllers.* **Experience from past wars has clearly demonstrated that the representatives in the ground forces is a necessary condition lose cooperation between them and the air forces when performing Proper functioning of this system substantially reduces on time to changes in the situation on the battlefield, puts loser to the troops, and makes it possible to operate not just in a plan worked out in advance but also to deliver strikes on call groups of aircraft in flight to newly appearing or "activated" hose that previously were not a serious threat. |
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| ground forces was configurated combat, the forces, and the accepts development have | | inture of the armed important trends in |
| the creation | of organic air control elements in ground | forces formations; |
| control centers and being conducted); | tion of aviation and ground forces combine joint control posts (usually for the peri | ou oper december |
| representative are | | |
| distribution of ar | ed role of air representatives directly in tillery fire, and of missile and aircraft s | , 61 2 |
| | e at ground forces command and control post of commanders of aviation units and large t anders of formations or their deputies; | ts not just of staff units, and sometimes |
| capabilities of ai coordinate and imp reconnoiter the gr | ous expansion of the authority and duties a r representatives to control crews over the lement cooperation between aviation and ground and air situation. | ound forces, and |
| tuning it to serve difficult and leng | | |
| | orther improve this system, while still in etical base, specially trained air personnel, and adequate training for all personnel | |
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